

Fig. 1

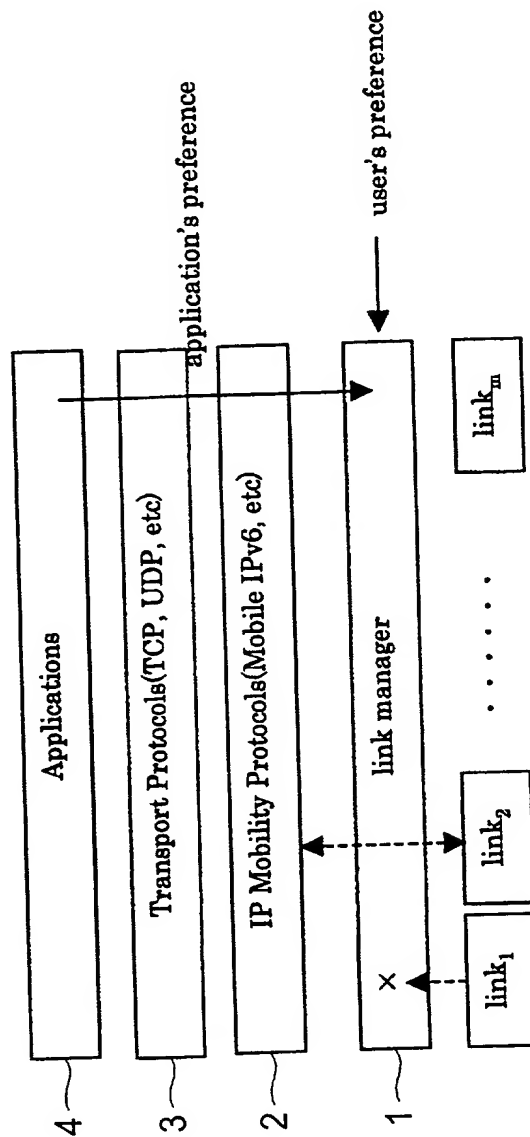


Fig.2

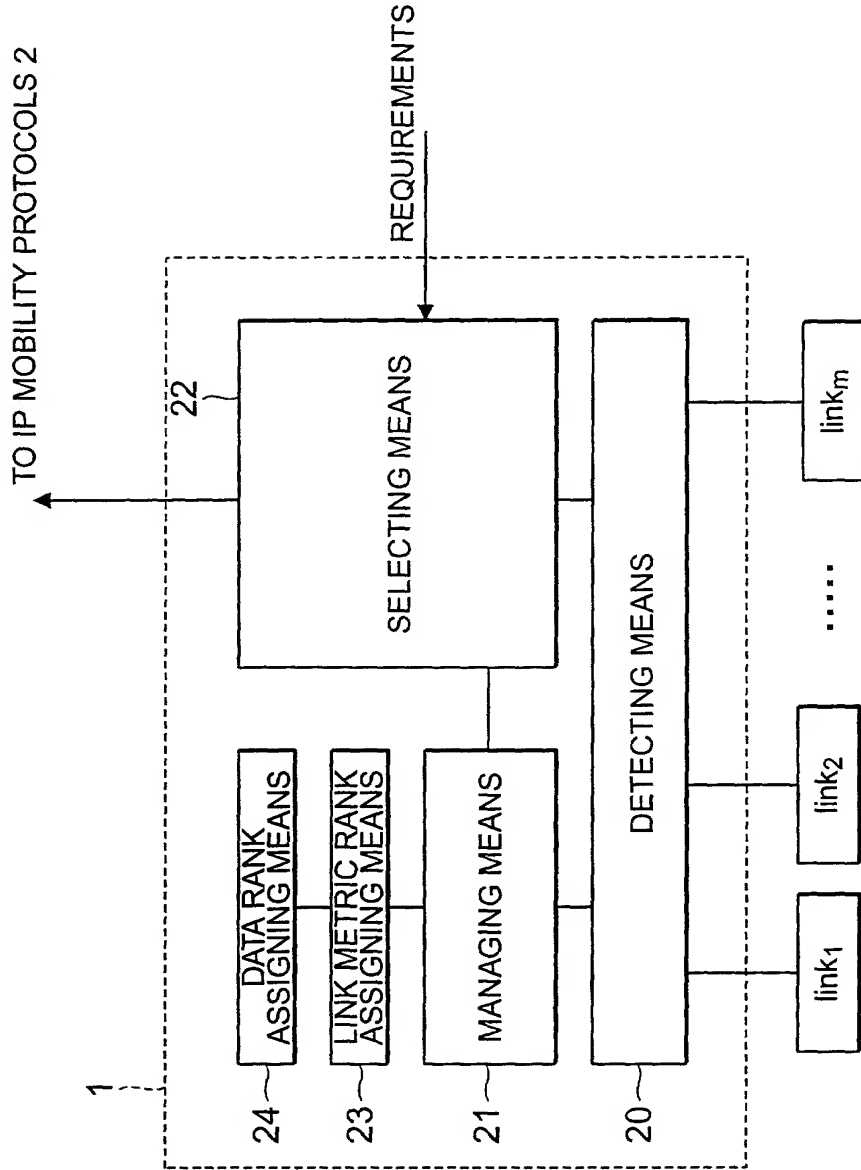


Fig.3

name	definition	variability
technology standard	standard of link technology	constant
cost	billing scheme(flat/time/usage), cost/billing unit	
link type	wired link or wireless link	
tolerable speed	tolerable speed of host	
QoS support	availability of link-level QoS	
encryption support	availability of link-level packet encryption	
power consumption	power consumption of link interface device	
sleep mode support	availability of low-power consumption mode	
enabled/disabled	indication of enabled or disabled set by user	variable
connectivity	connectivity of link	
throughput	throughput of link	
packet loss rate	packet loss rate of link	
latency	packet transmission latency of link	

Fig.4

<div> <div>preference</div> <div>metric priority for link selection</div> </div>	cost	quality	security	communication time
1	enabled/disabled	enabled/disabled	enabled/disabled	enabled/disabled
2	connectivity	connectivity	connectivity	connectivity
3	cost	throughput	encryption support	power consumption
4	throughput	packet loss rate	cost	sleep mode support
5	packet loss rate	latency	throughput	cost
6	latency	QoS support	packet loss rate	throughput
7	link type	link type	latency	packet loss rate
8	tolerable speed	tolerable speed	link type	latency
9	QoS support	cost	tolerable speed	link type
10	encryption support	encryption support	QoS support	tolerable speed
11	power consumption	power consumption	power consumption	QoS support
12	sleep mode support	sleep mode support	sleep mode support	encryption support

Fig.5

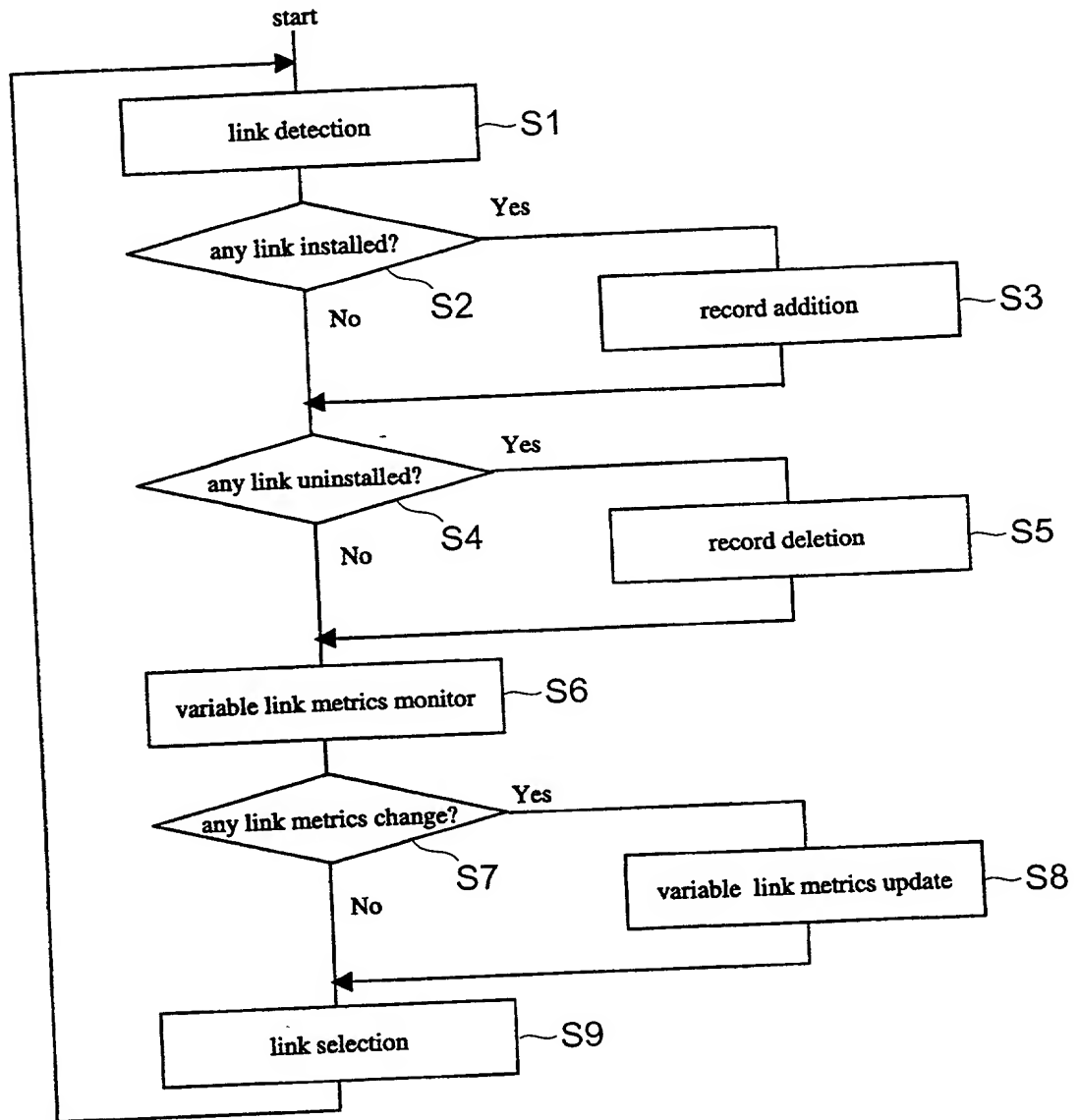


Fig.6

latency [sec]	0.2	0.005	0.05	0.001
packet loss rate [%]	0.1	0.01	0.0001	0.0001
throughput [bps]	384K	11M	56K	1G
connectivity	yes	yes	no	yes
enabled /disabled	enabled	enabled	disabled	enabled
sleep mode support	yes	yes	no	no
power consumption [W]	1	0.94	0.65	14
encryption support	yes	yes	no	no
QoS support	no	no	no	yes
tolerable speed [km/h]	100	16	0	0
link type	wireless link	wireless link	wireless link	wired link
cost	usage- based ¥2/ 128byte	flat rate	time- based ¥8.8/ 3min.	free
technology standard	IMT- 2000	IEEE 802.11	dial-up	IEEE 802.3z
link metrics	record			

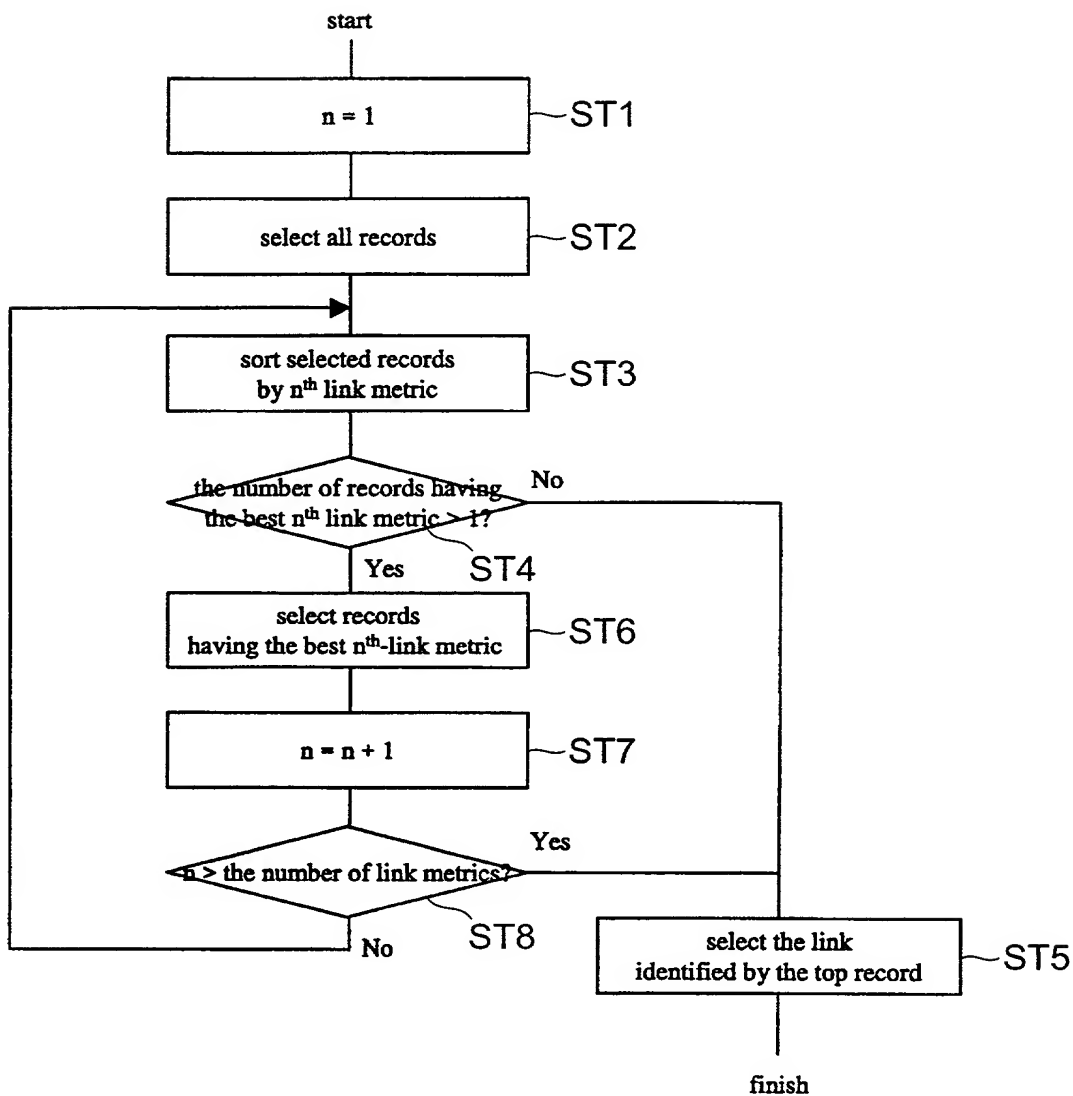
Fig.7

Fig. 8

link metrics	comparison rules
technology standard	N/A
cost	free > flat rate > usage-based > time-based
link type	wireless link > wired link
tolerable speed	high speed > slow speed
QoS support	yes > no
encryption support	yes > no
power consumption	low power consumption > large power consumption
sleep mode support	yes > no
enabled/disabled	enabled > disabled
connectivity	yes > no
throughput	large throughput > small throughput
packet loss rate	low packet loss rate > high packet loss rate
latency	small latency > large latency